Item 3: June 24, 2013

Compilation of Goals and Recommendations through 5/22/13 (italics not yet passed)

GOALS		
GOAL NO. 1, REDUCTION IN TOTAL IMPORTED WATER		
Based on anticipated delivery of approximately 200,000 acre feet of imported water		
from the County Water Authority in 2015, reduce the volume of purchases of water		
originating outside the County 12% by 2025 and 35% by 2035.		
GOAL NO. 2, INCREASE IN TOTAL RECYCLED WATER		
Increase production of recycled water, from potable reuse and/or other sources, to		
10% of total treated water delivered within the City by 2025 and 35% of total by 2035.		
Adjust these goals upward if potable reuse is increased at a greater rate than currently anticipated.		
GOAL NO. 3, RECYCLING STORM WATER		
Establish a program for treatment and recycling of storm water, based on a		
collaborative study between the Public Utilities Department and the Transportation &		
Storm Water Department, with a goal of commencing implementation of such a		
program by 2020.		
RECOMMENDATIONS	PERFORMANCE STANDARD	TIMING
CONSERVATION		
CONSERVATION RECOMMENDATION NO. C1, Permanent Voluntary Drought Standard		
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RECOMMENDATION NO. C, Water Conservation Code Modification To strengthen the Code and to encourage more water-conserving (e.g., WaterSmart) landscapes in new construction, modify the Water Conservation Code requirement for		
new landscape construction as follows:		
a. Reduce the Evapotranspiration Factor from 0.7 to 0.6.		
b. Modify the Plant Factors from "ranges" to specific numbers as follows:		
 Very Low Water Use Plantings 0.1 	City Council Action	Immediately
Low Water Use Plantings 0.3		
Moderate Water Use Plantings 0.5		
High Water Use Plantings 0.8.		
Special Use Landscape Areas including parks, edible gardens, and special botanical		
areas should retain 1.0 ET adjustment factor.		
RECOMMENDATION NO. C3, Water Budget Based Billing	Departmental	
Implement a water budget based billing program for commercial landscape meters.	Preparation of	Commence
This includes the utilization of Geographic Information Systems (GIS) to quantify	Program	Immediately
irrigated areas and modifying billing systems to charge commercial customers based on		Ininediately
a water budget for the size of their irrigated landscape area.	City Council Action	
RECOMMENDATION NO. C4, Water Conservation Ethic		
Implement a permanent and ongoing water conservation and outreach program. City		
leaders, elected officials and others should take on the responsibility of helping to		
create a city-wide water conservation ethic. The City should substantially increase		
funding for public outreach and education on water conservation, beginning with the		
next municipal budget cycle, in order to promote conservation on an ongoing basis and	City Coursell Dudgest	
not only during drought periods. This is a key factor in creating a citywide water conservation ethic.	City Council Budget Action	Next City Budget Cycle
Drovide the City Council Natural Decourage and Culture Committee (NDCC) with	 Departmental	Immediately and
Provide the City Council Natural Resources and Culture Committee (NRCC) with	Research and Report	Ongoing
quarterly updates on conservation efforts and outcomes, much like the status reports	,	
regarding water recycling efforts and the Water Purification Project.		
Examine the education and outreach tactics used in countries such as Australia to		
achieve their massive reduction in water use.		
Coordinate regional water consumer education campaigns using the latest research from social		

psychology that shows what messaging is most effective in influencing thoughtful water use behavior. Water agencies can also work with the private sector to develop public-private partnerships that can help reduce consumer demand.		
RECOMMENDATION NO. C5, Sustainable Development Incentives Implement the Sustainable Development Incentive Program outlined in the most recent update of Council Policy 600-27. In addition, implement a voluntary (up to 100%) water offset program utilizing significant development incentives.	Departmental Preparation of Program City Council Budget Action	Immediately Next Budget Cycle
RECOMMENDATION NO. C6, Water Conservation Products In coordination with the San Diego County Water Authority, investigate implementing an outreach and education program that concentrates on home improvement stores	Departmental Research and Coordination	Immediately
and nurseries in the region. Evaluate programs for labeling water conserving products, especially in the landscape industry, such as labeling drought tolerant plant materials.	Possible City Council Budget Action	Next Budget Cycle
RECOMMENDATION NO C7, Cash for Grass Program Expand "Cash for Grass" programs to effect real change in the landscape, with a goal of	Departmental Research and Report	Immediately
converting 1,000 residential and 200 commercial sites per year to water conserving landscapes.	Possible City Council Budget Action	Next Budget Cycle
RECOMMENDATION NO. C8, Conservation Equipment Rebates Investigate expanding rebate programs for indoor or outdoor water-conserving fixtures	Departmental Research and Report	Commence Immediately
and equipment that would be cost effective and successful.	Possible City Council Budget Action	Next Budget Cycle
RECOMMENDATION NO. C9, Retrofit at Resale Modify Municipal Code Section 147.04 to require retrofit at resale of all plumbing fixtures to water conserving fixtures, including replacing toilets that utilize greater than 1.6 gallons per flush.	City Council Action	Immediately

Pursue new outdoor wa Study techn vendor), to	technology that provides real-time feedback tracking of indoor and ter consumption for both residential and commercial property owners. ologies, and engage in a pilot study if appropriate (at the cost of the demonstrate the success of products and methodologies, with the intent of more widespread implementation of this technology.	Departmental Research and Report	Commence Immediately
	WATER RECYCLING AND REUSE		
	Stormwater		
Direct the T Department	ransportation and Stormwater Department and the Public Utilities to investigate opportunities for strategic infiltration of stormwater in estormwater could replenish existing groundwater basins. This provides nefits: Infiltration may be the most cost-effective manner to address more stringent bacteria TMDL's. Stormwater infiltration could increase the yield of existing groundwater basins and reduce salinity. Stormwater infiltration would benefit the environment by reducing runoff.	City Council Action Followed by Departmental Research and Report	Immediately
Direct the P groundwate	ADATION NO. WR2, Groundwater Basins ublic Utilities Department to increase the focus on characterizing er basins such as the San Pasqual Basin, San Diego Formation and San Diego n that could be potential local water supplies.	City Council Action Followed by Departmental Research and Report	Immediately
Direct the T Department pilot study,	ADATION NO. WR3, Pilot Study Funding ransportation and Stormwater Department and the Public Utilities to cooperate in investigating potential grant funding for a feasibility and such as a multi-beneficial joint project that can be included in the Regional Water Management Plan for possible Department of Water unding.	City Council Action Followed by Departmental Research and Report	Immediately

Explore opportion of the Explore opportion opportion of the Explore opportion of the Explore opportion of the Explore opportion of the Explore opportion opp	DATION NO. WR4, LID Demonstration Project ortunities to develop a low impact development (LID) "Demonstration in area with high public traffic and access, such as Balboa Park, that would off and also serve to educate the public. Alternatively, consider pursuing a ts" project, like the one in Los Angeles which produces multiple benefits is demonstration site as well.	Departmental Research and Report	Commence Immediately
	DATION NO. WR5, Stormwater Management		
	ansportation and Stormwater Department to develop a new program that		
achieves the	following goals:		
a. b.	Funding City-wide stormwater management programs to meet existing and new Regional Water Quality Control Board requirements through the use of a new fee-based program that can be directly correlated to Equivalent Stormwater Units assigned to each individual property. Providing incentives, such as a fee reduction, to property owners of new and existing development to maximize the use of low impact development methodologies such as pervious pavement, grass rooftops, rain gardens, and trees to minimize stormwater run-off.	City Council Action Followed by Departmental Research and Report	Immediately
	Non-Potable Reuse		
Encourage "	DATION NO. WR6, Non-Potable Reuse Expansion cost-effective" expansion of non-potable reuse by in-fill within the the existing system only. ("Cost effective" meaning the City can recover ervice.)	Departmental Research and Coordination Possible City Council Budget Action	Commence Immediately
RECOMMEN	DATION NO. WR7, Recycled Water Rates	Departmental	
	g recycled water rates were set at a discounted rate in 2001 and no	Research and	
•	is made for increasing them, and no adjustment to the discounted rate has	Coordination	Commence
	since 2001, revisit the rate structure for users of non-potable recycled	Describle Circ C	Immediately
	djust the rate to recover the cost of service or at least index rates to keep	Possible City Council	
up with mitte	eases in other water rates. Potable Reuse	Budget Action	
DECONANCEN		City Council Action	
	rd with recommended next steps in the 2012 Recycled Water Study.	City Council Action Followed by	Immediately

	Departmental	
	Implementation	
RECOMMENDATION NO. WR9, Water Purification Project Discuss with the County Water Authority its participation in Phase 2 and Phase 3 of the	Departmental	
Water Purification Project as part of a potential future regional water supply, as the	Communications and	Immediately
advanced treated water from the Water Purification Project will be stored in San	Report	
Vicente Reservoir, which can serve the region.		
RECOMMENDATION NO. WR10, Potable Reuse Regulations		
Support legislation to streamline the regulatory process for indirect and direct potable	City Council Action	Immediately
reuse.		
	City Council Action	
RECOMMENDATION NO. WR11, Direct Potable Reuse	Followed by	Immediately
Become an active participant in the Coalition for Direct Potable Reuse.	Departmental	IIIIIIcalately
	Implementation	
RECOMMENDATION NO. WR12, Reuse Technology Test Site		
Offer the Water Purification Demonstration Plant as a site for testing technologies and	City Council Action	
methodologies to demonstrate the ability to provide real-time monitoring and	Followed by	Immediately
implement fail-safe process methodology for treating wastewater to potable water	Departmental	mmediacery
quality.	Implementation	
Graywater		
RECOMMENDATION NO. WR13, No Permit for Basic Systems		
Maintain the current "no permit" policy for Closed Clothes Washer Systems.	No Action Required	
RECOMMENDATION NO. WR14, Expansion of "No-Permit" Standard		
Expand the "no permit" requirement to systems used for landscape irrigation that		
discharge less than 250 gallons a day and consist primarily of systems taking discharge		
water from washing machines and wash basins and do not include a potable water	City Council Action	Completed
connection, the use of a pump, or affect other plumbing, electrical, mechanical or		
building components. Emphasize the use of Best Management Practices to prevent		
runoff.		
RECOMMENDATION NO. WR15, Permitting	City Council Action	Completed
Streamline the permitting process for "simple" and "complex systems" that take	Sity Council / Iction	Jonipieted

discharge water from other elements in a residence such as bathtubs and showers that would require more extensive in-house plumbing, electrical or mechanical modifications or use of a pump.		
RECOMMENDATION NO. WR16, Simple Systems Information Direct the Public Utilities Department, in consultation with the Development Services Department, to develop and include information on simple graywater systems in their public outreach materials and social media outreach, including emphasis on use of Best Management Practices to prevent runoff.	City Council Action Followed by Departmental Implementation	Completed
RECOMMENDATION NO. WR17, Complex Systems Oversight Continue oversight of "complex systems" in the purview of the Development Services Department in order to ensure that Plumbing and Building Code requirements are met.	City Council Action	Immediately
RATE STRUCTURE		
RECOMMENDATION NO. RS1, <i>Tiered Rate Structure</i> To encourage conservation, retain a tiered rate structure, but with greater cost difference between tiers. For example, some water suppliers that use a three-tiered rate structure charge thirty percent (30%) more for Tier 2 than for Tier 1, and forty percent (40%) more for Tier 3 than for Tier 2.	Departmental Program Development City Council Action	Following Conclusion of Cost of Service Study
RECOMMENDATION NO. RS2, Cost of Service Study Use the Cost of Service Study being performed for the City by Black and Veatch, to determine how much the City should charge for each tier of water service. (Note: Black and Veatch cautions, however, that the difference between tiers should not be unduly punitive, such as tiers that are 10 or 15 times higher than the base rate.)	Departmental Program Development City Council Action	Following Conclusion of Cost of Service Study
RECOMMENDATION NO. RS3, Water-Based Budget for Irrigation Continue with studies of a water-based budget for the City's approximately 4,400 irrigation-only accounts. Depending on the results of those studies, include this concept when the City next moves forward with a Proposition 218 notice seeking to increase rates.	Departmental Research and Report City Council Action	Commence Immediately

	INNOVATION & TECHNOLOGY		
	Leak Detection & Technology		
The working	group recommends that a presentation report on the IBM/Brady pilot sented to the Task Force on completion.		
	quality of the data used to establish water loss performance indicators, Evaluating accuracy in the determination of the number of service		
b.	connections and length of water mains. Evaluating the potential for errors associated with determination of water input volumes. Introducing a program to address unauthorized consumption.	Departmental Research and Implementation	Commence
c. d.	Introducing a program to address unauthorized consumption. Introducing a methodology to determine the magnitude for meter under-registration.		Immediately
e.	Maintaining separate statistics for leaks and for water used in fire suppression.		
f.	Benchmarking real versus apparent losses.		
g. h.	Calibrating the City's current model. Evaluating pressure reduction through rezoning.		
	IDATION NO. IT3, Water Pressure Assessment City's own assessment of potential pressure reduction throughout each		
	ne, if the City has not already done so, by such means as:		
a.	Desktop assessment of existing topographic and water supply conditions, including customer base requirements.	City Council Action Followed by	Commence
b.	Evaluation and validation of network performance through hydraulic modeling.	Departmental Research and Report	Immediately
c.	Identification and investigation of potential rezoning opportunities to reduce energy requirements.		
Fac	cilitating Technology Development in the San Diego Region		
	IDATION NO. IT4, Assisting New Technologies		

Investigate the possibility of using the Water Purification Project demonstration site or	Departmental	Commence
providing services, as appropriate, for local water treatment technology manufacturers	Research and	Immediately
and/or Blue Tech industries that need (or desire) to do field testing of new products.	Implementation	
Energy & Water		
RECOMMENDATION NO. IT5, Optimization Study		
Include in any planned optimization study not only pumped storage but also development of solar energy at City-owned sites and the use of in-line hydroelectric (micro turbines) in places of pressure reducing valves at appropriate locations in the distribution system, to reduce imported energy consumption by the City and create overall long term energy savings.	Departmental Research and Implementation	Commence Immediately
RECOMMENDATION NO. IT6, Dynamic Optimization Programs		
As part of the City's Energy Optimization Study, evaluate the costs and benefits of dynamic optimization programs that provide water utilities an opportunity to use behind the meter dynamic real-time SMARTGrid technology to increase efficiency and flexibility to better manage their own energy use. Considering the complexity of the City's treatment and distribution system, at the minimum, the dynamic optimization programs evaluated should be able to handle several hundred pumps, control-valves, and demand zones and save energy costs, in at least five main ways, by: a. Time-of-use load shifting where the pumping operations are moved from daytime (high energy tariff) to night-time (low energy tariff); b. Peak charges avoidance where the software will naturally chose to avoid running pumps during high periods when peak charges occur; c. Selecting lowest cost sources of water where the software queries the lowest cost of production of water and adjusts the water source based on the information; d. Achievement of shortest path through the trunk distribution network by constantly reading and working to the lowest head loss; and	Departmental Research and Implementation	Commence Immediately
e. Pump efficiency improvement because the software holds the actual pump operating curve which is calibrated from flow and pressure measurements read from telemetry, and from the monthly energy bill. The software selects the combination of pump settings which delivers the overall lowest operating cost and highest possible efficiency.		
RECOMMENDATION NO. IT7, Energy and Water Supply		
Take the "embedded energy" of any water supply into account in any future City water	Departmental	

supply decisions. Since water and energy are intrinsically linked, both limited resources must be managed efficiently.	Research and Report City Council Action	Commence Immediately
On-Site Waste Water Treatment		
RECOMMENDATION NO. IT8, On-Site Treatment Guidelines Develop a set of guidelines for on-site wastewater treatment and reuse (including proposals for sewer mining operations) which detail the issues and criteria (including the financial viability of a proposed project) that proposals must meet or address in order for the City to participate in or cooperate with such projects.	Departmental Research and Report City Council Action	Commence Immediately
RECOMMENDATION NO. IT9, Value of Wastewater and Reclaimed Water Consider the value of both wastewater (when providing water for potential sewer mining operations) and reclaimed water (when projects provide water to City owned properties) and increased costs or avoided costs that the City would incur or realize, and how the proposed project could impact the City's plans for potable reuse when setting a charge for wastewater supply and/or purchase price of recycled product water provided by the project. Establish standby fees and reserved capacity charges for such projects, so that developers can take such fees into account in determining whether a proposed project makes economic sense.	Departmental Research and Report City Council Action	Commence Immediately
Advanced Metering Infrastructure		
RECOMMENDATION NO. IT10, AMI Funding Pursue grant funding to offset some of the costs for an entire system Advanced Metering Infrastructure retrofit.	Departmental Implementation	Immediately
RECOMMENDATION NO. IT11, Water Meter Retrofitting Retrofit all of the remaining 265,000 water meters with AMI technology within 10 years.	City Council Budget Action Departmental Implementation	Commence Immediately
RECOMMENDATION NO. IT12, Retrofit Cost-Sharing Consider cost sharing with single family customers who would like to retrofit their water meters with AMI technology on a more expeditious basis.	Departmental Research and Report City Council Action	Commence Immediately